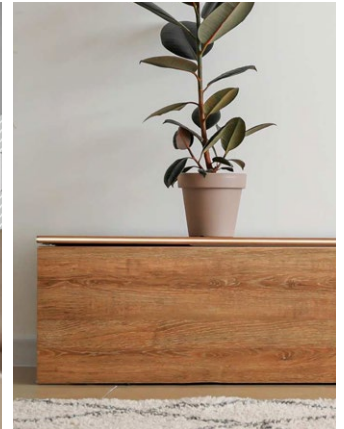


### AR5 CHANNEL FIXTURE

Our AR5 Channel Fixture is a flexible micro channel with a 110-degree beam angle for decorative illumination in small gaps. Use in counter tops and edges or create light drawings in straight lines or gentle arcs. The pinpoint lighting surface is a smooth milky lens built into the channel at just .2 in. (5.3) mm high. Design an elegant custom fixture with AR5 Channel and our Micro RibbonLyte products.

- Available for field assembly or factory assembly
- 0.51 in. (13 mm) wide by 0.2 in. (5.3 mm) deep
- 110-degree beam angle
- Wattage Range from 0.75 W/ft (2.46 W/m) to 6.0 W/ft (19.7 W/m)
- Static White delivered lumen range from 4 lm/ft (14 lm/m) up to 41 lm/ft (133 lm/m)
- Milky Lens built into channel

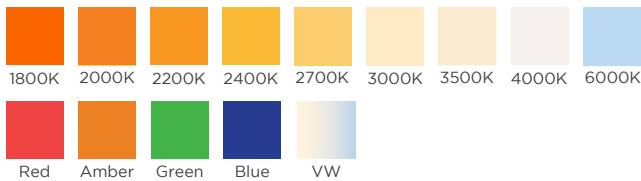


### AVAILABLE LENS / HOUSING FINISH



Milky Lens built into channel  
7% Light Transmission

### AVAILABLE COLORS & COLOR TEMPERATURES

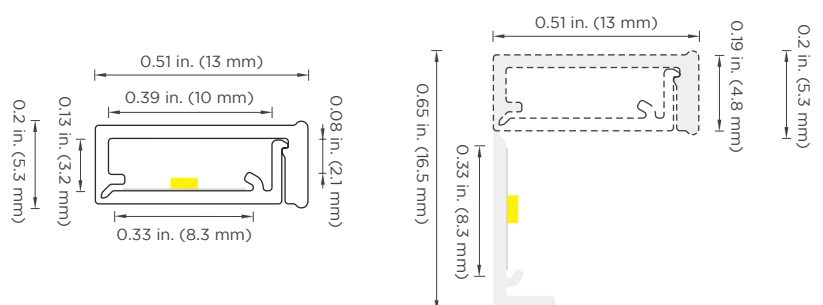
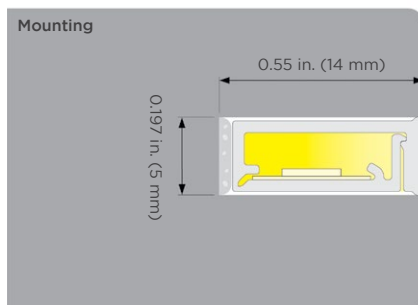


The profile can be used to create a light drawing using straight lines or arcs. Minimum bending radius 9.84 in. (25 cm)



### DIMENSIONS

#### AR5 Channel



**Width:** 0.51 in. (13 mm)  
**Height:** 0.2 in. (5.3 mm)  
**Internal Width:** 0.33 in. (8.3 mm)  
**Internal Height:** 0.13 in. (3.2 mm)

**Note:** This channel does not require mounting clips. Please see our installation guide for instructions.

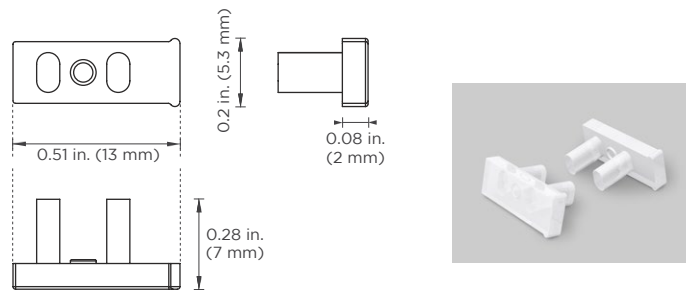
Acolyte does not warrant or represent that the information is free from errors or omission. The information may change without notice and Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.

**SPECIFICATIONS**

<b>Beam Angle</b>	110°
<b>Lens Type</b>	Milky Lens built into channel
<b>Length</b>	Channel is sold by the foot and cut to your exact desired length
<b>Operating Voltage</b>	24V
<b>Dimming</b>	MLV / 0-10 Volt / Lutron Hi-Lume 1% dimming LED drivers / Lutron VIVE code compliance available / ELV / DALI / DMX
<b>Operating Temperature</b>	-40° F to 158° F (-40° C to 70° C)
<b>Colors</b>	1800K, 2000K, 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 6000K, Red, Amber, Green, Blue, VW (1800K, 2000K, 2200K only available in IP20)
<b>CRI</b>	90+ CRI (Static white only)
<b>Minimum Bending Radius</b>	9.8 in. (25 cm)
<b>Lamp Life</b>	L70 at 50,000 Hours
<b>MacAdam Ellipses (SDCM)</b>	2-Step Binning (For Static White LEDs only)
<b>Certifications</b>	ETL Listed: UL 2108 Issued: 2004/02/27 Ed: 1 Rev: 2014/02/24 Low Voltage Lighting Systems CSA C22.2#9.0 Issued: 1996/06/01 Ed: 1 (R2011) General Requirements for Luminaires; with Gen. Inst. 1: 1997, Gen Inst. 2: 1998. ROHS compliant UL 2108 - Low Voltage Lighting Systems UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products UL 1598 / CSA 250.0-08 - Luminaires

**ACCESSORIES**

**Milky End Caps**



### STEP 1 Complete Channel Part Number

CHANNEL

CHAR5

CHAR5 - AR5 Channel

### STEP 2 Complete RibbonLyte Part Number

CATEGORY

RB

RB - RibbonLyte

CRI

0 - Static Color, Color Changing  
90 - 90+ CRI Static White

RIBBON TYPE & IP RATING

SWS220 - Static White Series 2 IP20      VWS220 - VW Series 2 IP20  
SWS265 - Static White Series 2 IP65      VWS265 - VW Series 2 IP65  
SCS220 - Static Color Series 2 IP20  
SCS265 - Static Color Series 2 IP65

NOTE: To ensure waterproofing standards are met, IP65 RibbonLyte can NOT be cut in the field.

WATTAGE

0.75 - 0.75 W/ft (2.46 W/m - Static White, Static Color)  
1.0 - 1.0 W/ft (3.3 W/m - Variable White)  
1.5 - 1.5 W/ft (4.9 W/m - Static White, Static Color)  
2.2 - 2.2 W/ft (7.2 W/m - Static White, Static Color)  
3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color, Variable White)  
4.4 - 4.4 W/ft (14.4 W/m - Static White, Static Color)  
6.0 - 6.0 W/ft (19.7 W/m - Variable White)

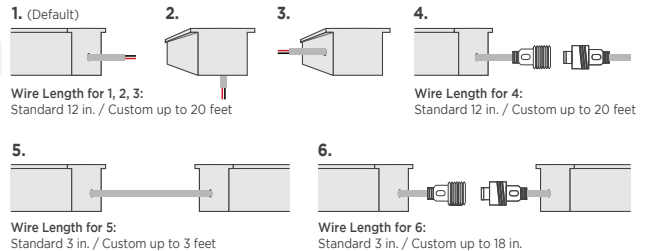
COLOR

18 - 1800K      R - Red  
20 - 2000K      A - Amber  
22 - 2200K      G - Green  
24 - 2400K      B - Blue  
27 - 2700K      VW - Variable White  
30 - 3000K      Z - Undecided\*\*  
35 - 3500K      \*\* For quotes only. Must be chosen before final order.  
40 - 4000K  
60 - 6000K

CONNECTION OPTIONS (See diagrams on the right)

- 1 - End Feed Bare Wire Connection
- 2 - Back Feed Bare Wire Connection
- 3 - Side Feed Bare Wire Connection
- 4 - End Feed with IP67 Male Coupler
- 5 - Soldered Daisy Chain
- 6 - Daisy Chain With IP67 Couplers

Custom Length (ft.)



### STEP 3 Complete Assembly Option & Length

ASSEMBLY OPTION

FI - Field Assembly  
FA - Factory Assembly

LENGTH (Standard factory assembled length up to 78 in. / 2 m)

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cutable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Milky Lens (lm/ft / lm/m)	Max Length	Compatible with Channel		
							IP20	IP65	IP68
0.75 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	84	4 / 14	IP20: 49 ft (15 m) IP65/IP68: 32.8 ft (10 m)	✓	✓	
			2000K	99	5 / 17				
			2200K	109	6 / 19				
			2400K	113	6 / 19				
			2700K	123	6 / 21				
			3000K	123	6 / 21				
			3500K	130	7 / 22				
			4000K	134	7 / 23				
			6000K	131	7 / 23				
1.5 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	84	9 / 29	IP20: 49 ft (15 m) IP65/IP68: 32.8 ft (10 m)	✓	✓	
			2000K	98	10 / 34				
			2200K	109	11 / 38				
			2400K	113	12 / 39				
			2700K	123	13 / 42				
			3000K	123	13 / 42				
			3500K	129	14 / 44				
			4000K	134	14 / 46				
6000K	131	14 / 45							
2.2 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	83	13 / 42	IP20: 42 ft (12.8 m) IP65/IP68: 32.8 ft (10 m)	✓	✓	
			2000K	96	15 / 49				
			2200K	106	16 / 54				
			2400K	111	17 / 56				
			2700K	120	18 / 61				
			3000K	122	19 / 62				
			3500K	127	20 / 64				
			4000K	133	20 / 67				
6000K	128	20 / 65							
3.0 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	84	18 / 58	IP20: 36 ft (11 m) IP65/IP68: 32.8 ft (10 m)	✓	✓	
			2000K	98	21 / 68				
			2200K	108	23 / 74				
			2400K	109.8	23 / 76				
			2700K	122.9	26 / 85				
			3000K	130	27 / 90				
			3500K	133	28 / 92				
			4000K	133	28 / 92				
6000K	128	27 / 88							
4.4 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	81	25 / 82	28 ft 4 in. (8.64 m)	✓	✓	
			2000K	95	29 / 96				
			2200K	105	32 / 106				
			2400K	109	34 / 110				
			2700K	122	38 / 123				
			3000K	129	40 / 130				
			3500K	132	41 / 133				
			4000K	132	41 / 133				
6000K	126	39 / 127							
0.75 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	41	2 / 7	IP20: 49 ft (15 m) IP65/IP68: 32.8 ft (10 m)	✓	✓	
			Green	175	9 / 30				
			Blue	19	1 / 3				
			Amber	34	2 / 6				

**RIBBONLYTE SPECIFICATIONS & COMPATIBILITY**

Available Wattages	Cutable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Milky Lens (lm/ft / lm/m)	Max Length	Compatible with Channel		
							IP20	IP65	IP68
1.5 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	42	4 / 14	IP20: 49 ft (15 m) IP65/IP68: 32.8 ft (10 m)	✓	✓	
			Green	160	17 / 55				
			Blue	18	2 / 6				
			Amber	34	4 / 12				
2.2 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	42	6 / 21	IP20: 42 ft (12.8 m) IP65/IP68: 32.8 ft (10 m)	✓	✓	
			Green	145	22 / 73				
			Blue	18	3 / 9				
			Amber	34	5 / 17				
3.0 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	40	8 / 28	32.8 ft (10 m)	✓	✓	
			Green	127	27 / 87				
			Blue	25	5 / 17				
			Amber	29	6 / 20				
4.4 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	38	12 / 38	29 ft (8.8 m)	✓	✓	
			Green	117	36 / 118				
			Blue	24	7 / 24				
			Amber	25	8 / 25				
1.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	85	6 / 20	32.8 ft (10 m)	✓	✓	
3.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	80	16.8 / 55	32.8 ft (10 m)	✓	✓	
6.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	75	31.5 / 103	32.8 ft (10 m)	✓	✓	

**DIODE VISIBILITY CHART** (Data below applies to installations with Milky lens only)

 <p><b>No Visible Diode = N</b></p>		 <p><b>With Visible Diode = Y</b></p>	
<p><b>Static White &amp; Static Color RibbonLyte</b></p>		<p><b>Color Changing RibbonLyte</b></p>	
0.75/1.5/2.2	3.0/4.4	Variable White	
IP20 IP65	IP20 IP65	IP20 IP65	
<b>N</b>	<b>N</b>	<b>N</b>	

AVAILABLE DRIVERS

NON-DIMMING ELECTRONIC DRIVERS



**30W, 60W, 96W  
Non-Dimming Electronic  
Class 2 Drivers**

Part No.:

- DRVW2430 (30 Watt)
- DRVW2460 (60 Watt)
- DRVW2496 (96 Watt)

Output Voltage: 24 V  
Voltage Range: 120-277 VAC  
IP Rating: Dry or Damp  
UL Listed



**240W, 320W  
Non-Dimming  
Electronic Drivers**

Part No.:

- DRVW24240 (240 Watt)
- DRVW24320 (320 Watt)

Output Voltage: 24 V  
Voltage Range: 90-305 VAC  
IP Rating: Dry or Damp  
UL Recognized

LUTRON HI-LUME DRIVERS



**40W  
Lutron Hi-Lume 1% Dimming  
Class 2 Drivers**

Part No.:

- DRVLUT24403W (40 Watt, 3-wire)
- DRVLUT24402W (40 Watt, 2-wire)

Output Voltage: 24 V  
Voltage Range: 120-277 VAC (3-wire model)  
or 120V (2-wire model)  
IP Rating: Dry or Damp  
Dimmable using 2-wire forward phase,  
3-wire+G or digital EcoSystem  
UL Listed

ELV & MLV DRIVERS WITH COMPATIBLE DIMMERS



**60W, 96W, 150W, 300W  
ELV/MLV Dimmable Drivers**

Part No.:

- DRVW2460ELVMLV (60 Watt)
- DRVW2496ELVMLV (96 Watt)
- DRVW24150ELVMLV (150 Watt)
- DRVW24300ELVMLV (300 Watt)

Line Voltage Dimmable Drivers  
Output Voltage: 24 V  
Voltage Range: 100-277 VAC  
IP Rating: IP67  
Dimmable  
UL, CE, and CSA Listed



**LUTRON Skylark Contour Dimmer**

Part No.: TRIDIMSKY

Width: 2.94 in (75 mm)  
Length: 4.69 in (120 mm)  
Depth: 0.30 in (7.6 mm)

- Single pole and 3-way versions
- Compatible with Acolyte MLV drivers
- Slide adjusts brightness and On/Off control
- 30 mA max control current
- Available in white finish



**LUTRON NOVA-T Dimmer**

Part No.: TRIDIMNOVA

Width: 2.75 in (70 mm)  
Length: 4.56 in (116 mm)  
Depth: 0.30 in (7.6 mm)

- Slide adjusts brightness and On/Off control
- 30 mA max control current
- Available in white finish



**LUTRON DIVA Dimmer**

Part No.: TRIDIMDIVA

(With Locator Light) TRIDIMDIVAL  
Width: 2.94 in (75 mm)  
Length: 4.69 in (120 mm)  
Depth: 0.30 in (7.6 mm)

- Large paddle switch with a captive linear-slide dimmer
- 30 mA max control current
- Available in white finish
- Available with locator light which glows green when the switch is off

Note: For more options, please reference the Optional Dimmer List on Acolyte product website page.

AVAILABLE DRIVERS / CONTROLLERS AND DIMMING OPTIONS / WIRE GAUGE CHART

0-10V DRIVERS AND DIMMERS

DIMMING MODULE



0-10V Dimmable Waterproof Drivers

**96W** Part No.: DRVW249610P  
**288W** Part No.: DRVW2428810P  
 Output Voltage: 24 V (+/- 0.5V)  
 Voltage Range: 100-277 VAC  
 Environmental Rating: UL Wet Location  
 UL Listed



LUTRON DIVA Dimmer

Part No.: LVDIMDIVA  
 Width: 2.94 in. (75 mm)  
 Length: 4.69 in. (120 mm)  
 Depth: 0.30 in. (7.6 mm)

- Compatible with 0-10 V Dimming Module
- Large paddle switch with a captive linear-slide dimmer
- 30 mA max control current
- Available in white finish



LUTRON NOVA-T Dimmer

Part No.: LVDIMNOVA  
 Width: 2.75 in. (70 mm)  
 Length: 4.56 in. (116 mm)  
 Depth: 0.30 in. (7.6 mm)

- Compatible with 0-10 V Dimming Module
- Slide adjusts brightness and On/Off control
- 30 mA max control current
- Available in white finish



Variable White Dimming Module

Part No.: VWDIMMOD

- 1 dimming module required per 30 ft (9.1 m)
- This product is only compatible with Variable White RibbonLyte, not Variable White Amber or Variable White Red. Works with any 0-10V dimmers to provide CCT change with one dimmer and brightness change with the other.

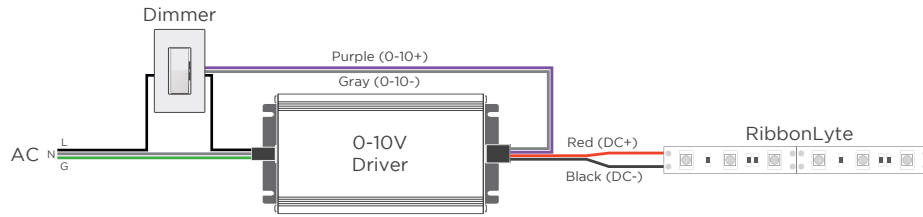
Note: Max length before additional power is introduced

DRIVER AND RIBBONLYTE AT FULL LOAD

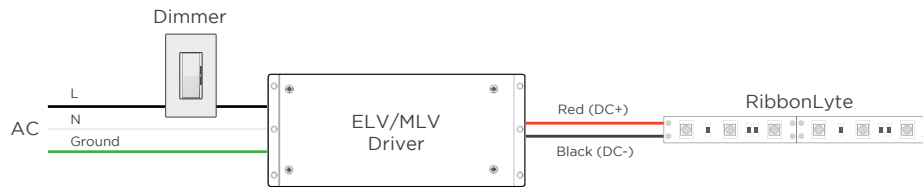
Wattages	30		60		96		150		200		240		300		320	
	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37	3.5	1.07	2.75	0.84	2.75	0.84
20 AWG	35	10.67	23	7.01	14	4.27	9	2.74	7	2.13	5.75	1.75	4.5	1.37	4.25	1.30
18 AWG	56	17.07	37	11.28	23	7.01	15	4.57	11	3.35	9	2.74	7.5	2.29	7	2.13
16 AWG	90	27.44	60	18.29	37	11.28	24	7.32	18	5.49	15	4.57	12	3.66	11	3.35
14 AWG	142	43.29	95	28.96	59	17.99	38	11.59	28	8.54	23	7.01	19	5.79	17	5.18
12 AWG	226	68.90	151	46.04	94	28.66	60	18.29	45	13.72	37	11.28	30	9.15	28	8.54
10 AWG	360	109.76	240	73.17	150	45.73	96	29.27	72	21.95	60	18.29	48	14.63	45	13.72
8 AWG	574	175.00	381	116.16	239	72.87	153	46.65	115	35.06	95	28.96	76	23.17	71	21.65

WIRING DIAGRAMS

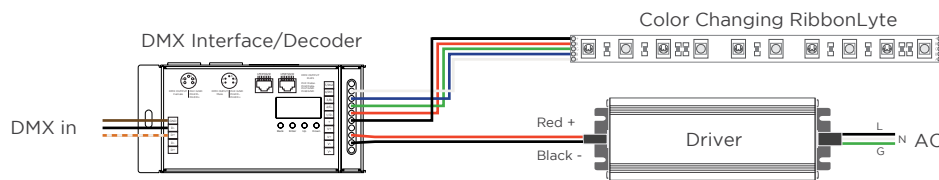
0-10V



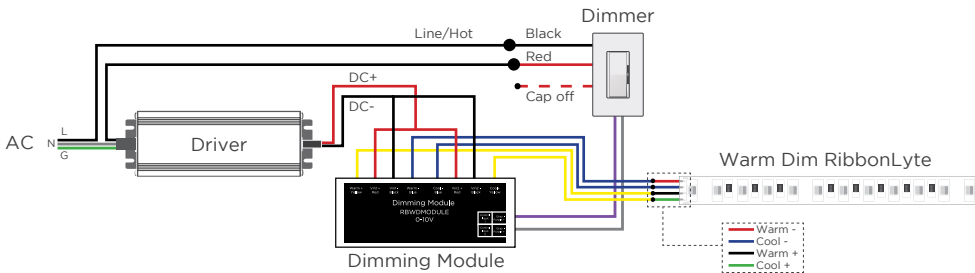
MLV / ELV



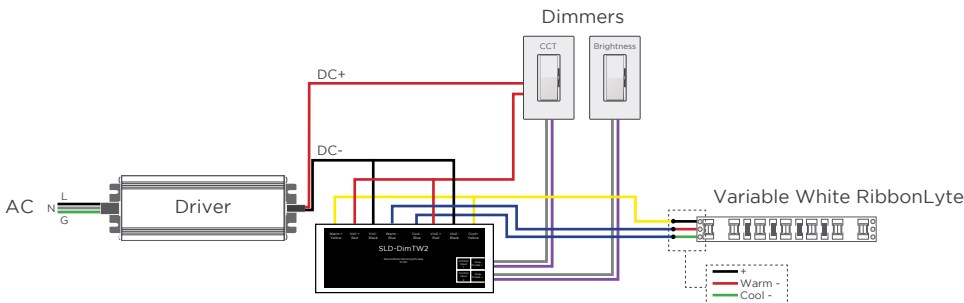
DMX



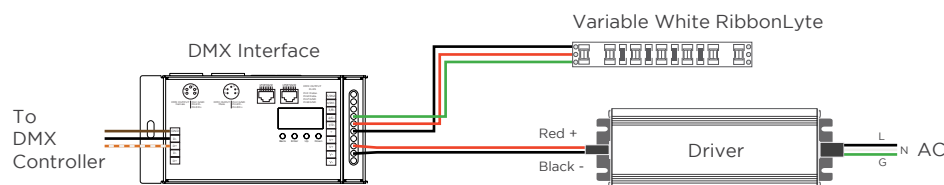
WARM DIM



2-CHANNEL VARIABLE WHITE DIMMING



DMX WIRING DIAGRAM - COMPATIBLE WITH ALL MODELS OF VARIABLE WHITE RIBBONLYTE



WIRE COLORS PER RIBBONLYTE COLOR

STATIC WHITE + STATIC COLOR

Red Wire (+) Positive  
Black Wire (-) Negative

RGB

Black Wire (+) Positive  
Red Wire (-) goes to Red Channel  
Green Wire (-) goes to Green Channel  
Blue Wire (-) goes to Blue Channel

RGBW/A

Black Wire (+) Positive  
Red Wire (-) goes to Red Channel  
Green Wire (-) goes to Green Channel  
Blue Wire (-) goes to Blue Channel  
White Wire (-) goes to White Channel

WARM DIM

Red Wire (-) goes to Warm White Channel  
Blue Wire (-) goes to Cool White Channel  
Black Wire (+) goes to Warm White Channel  
Green Wire (+) goes to Cool White Channel

VARIABLE WHITE

Black Wire (+) Positive  
Red Wire (-) goes to Warm White Channel  
Green Wire (-) goes to Cool White Channel